BRAIN RESEARCH

VOL. 920 NOS. 1,2 **CONTENTS** **30 NOVEMBER 2001**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – EMBASE/Excerpta Medica – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Elsevier BIOBASE/Current Awareness in Biological Sciences. Full text available in ScienceDirect® and Neuroscion.

Guide for Authors v

Themes and Topics x

Announcements

Brain Research Interactive Young Investigator Awards xiii

Call for Papers – Gene Expression Patterns xiv

Research reports

3-Acetylpyridine reduces tongue protrusion force but does not abolish lick rhythm in the rat
S.J. Moss, G. Wang, R. Chen, R. Pal, S.C. Fowler (USA) 1

Infusions of physostigmine into the hippocampus or the entorhinal cortex attenuate avoidance retention deficits produced by intra-septal infusions of the GABA agonist muscimol
A. Degroot, M.B. Parent (Canada, USA) 10

Adenosine exerts multiple effects in dorsal horn neurones of the adult rat spinal cord
M.K. Patel, R.D. Pinnock, K. Lee (UK) 19

The antiepileptic drug losigamone decreases the persistent Na^+ current in rat hippocampal neurons
C. Gebhardt, J.M. Breustedt, M. Nöldner, S.S. Chatterjee, U. Heinemann (Germany) 27

Advanced glycation endproducts co-localize with inducible nitric oxide synthase in Alzheimer's disease
A. Wong, H.-J. Lüth, W. Deuther-Conrad, S. Dukic-Stefanovic, J. Gasic-Milenkovic, T. Arendt, G. Münch (Germany) 32

Dopamine D_2 receptor-mediated G-protein activation in rat striatum: functional autoradiography and influence of unilateral 6-hydroxydopamine lesions of the substantia nigra
A. Newman-Tancredi, D. Cussac, M. Brocco, J.-M. Rivet, C. Chaput, M. Touzard, V. Pasteau, M.J. Millan (France) 41

Immunohistochemical characterization of localization of long-form leptin receptor (OB-Rb) in neurochemically defined cells in the ovine hypothalamus
J. Iqbal, S. Pompolo, T. Murakami, E. Grouzmann, T. Sakurai, B. Meister, I.J. Clarke (Australia, Japan, Switzerland, Sweden) 55

Neurotrophic activity of 2,4,4-trimethyl-3-(15-hydroxypentadecyl)-2-cyclohexen-1-one in cultured central nervous system neurons
J.-L. Gonzalez de Aguilar, C. Girlanda-Junges, D. Coowar, G. Duportail, J.-P. Loeffler, B. Luu (France) 65

Primary cultures as a model for studying ependymal functions: glycogen metabolism in ependymal cells
C. Prothmann, J. Wellard, J. Berger, B. Hamprecht, S. Verleysdonk (Germany) 74

Localization of phosphodiesterase-4 isoforms in the medulla and nodose ganglion of the squirrel monkey
S. Lamontagne, E. Meadows, P. Luk, D. Normandin, E. Muise, L. Boulet, D.J. Pon, A. Robichaud, G.S. Robertson, K.M. Metters, F. Nantel (Canada) 84

Chronic sucrose intake augments antinociception induced by injections of mu but not kappa opioid receptor agonists into the periaqueductal gray matter in male and female rats
R.B. Kanarek, S. Mandillo, C. Wiatr (USA) 97

Environmental context modulates the ability of cocaine and amphetamine to induce *c-fos* mRNA expression in the neocortex, caudate nucleus, and nucleus accumbens
J. Uslaner, A. Badiani, H.E.W. Day, S.J. Watson, H. Akil, T.E. Robinson (USA) 106

Differential modulation of GABA- and NMDA-gated currents by ethanol and isoflurane in cultured rat cerebral cortical neurons
Z. Ming, D.J. Knapp, R.A. Mueller, G.R. Breese, H.E. Criswell (USA) 117

Cocaine activates redox-regulated transcription factors and induces TNF-α expression in human brain endothelial cells
Y.W. Lee, B. Hennig, M. Fiala, K.S. Kim, M. Toborek (USA) 125

Neurons in the deep layers of superior colliculus are a requisite component of the neuronal network for seizures during ethanol withdrawal
L. Yang, C. Long, C.L. Faingold (USA) 134

Activation of $GABA_A$ receptors in the amygdala blocks the acquisition and expression of conditioned defeat in Syrian hamsters
A.M. Jasnow, K.L. Huhman (USA) 142

(Contents continued inside)

0006-8993(20011130)920:1/2;1-W

BRAIN RESEARCH

VOL. 920 NOS. 1,2 **CONTENTS** **30 NOVEMBER 2001**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – EMBASE/Excerpta Medica – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Elsevier BIOBASE/Current Awareness in Biological Sciences. Full text available in ScienceDirect® and Neuroscion.

Guide for Authors v

Themes and Topics x

Announcements

Brain Research Interactive Young Investigator Awards xiii

Call for Papers – Gene Expression Patterns xiv

Research reports

3-Acetylpyridine reduces tongue protrusion force but does not abolish lick rhythm in the rat
S.J. Moss, G. Wang, R. Chen, R. Pal, S.C. Fowler (USA) 1

Infusions of physostigmine into the hippocampus or the entorhinal cortex attenuate avoidance retention deficits produced by intra-septal infusions of the GABA agonist muscimol
A. Degroot, M.B. Parent (Canada, USA) 10

Adenosine exerts multiple effects in dorsal horn neurones of the adult rat spinal cord
M.K. Patel, R.D. Pinnock, K. Lee (UK) 19

The antiepileptic drug losigamone decreases the persistent Na^+ current in rat hippocampal neurons
C. Gebhardt, J.M. Breustedt, M. Nöldner, S.S. Chatterjee, U. Heinemann (Germany) 27

Advanced glycation endproducts co-localize with inducible nitric oxide synthase in Alzheimer's disease
A. Wong, H.-J. Lüth, W. Deuther-Conrad, S. Dukic-Stefanovic, J. Gasic-Milenkovic, T. Arendt, G. Münch (Germany) 32

Dopamine D_2 receptor-mediated G-protein activation in rat striatum: functional autoradiography and influence of unilateral 6-hydroxydopamine lesions of the substantia nigra
A. Newman-Tancredi, D. Cussac, M. Brocco, J.-M. Rivet, C. Chaput, M. Touzard, V. Pasteau, M.J. Millan (France) 41

Immunohistochemical characterization of localization of long-form leptin receptor (OB-Rb) in neurochemically defined cells in the ovine hypothalamus
J. Iqbal, S. Pompolo, T. Murakami, E. Grouzmann, T. Sakurai, B. Meister, I.J. Clarke (Australia, Japan, Switzerland, Sweden) 55

Neurotrophic activity of 2,4,4-trimethyl-3-(15-hydroxypentadecyl)-2-cyclohexen-1-one in cultured central nervous system neurons
J.-L. Gonzalez de Aguilar, C. Girlanda-Junges, D. Coowar, G. Duportail, J.-P. Loeffler, B. Luu (France) 65

Primary cultures as a model for studying ependymal functions: glycogen metabolism in ependymal cells
C. Prothmann, J. Wellard, J. Berger, B. Hamprecht, S. Verleysdonk (Germany) 74

Localization of phosphodiesterase-4 isoforms in the medulla and nodose ganglion of the squirrel monkey
S. Lamontagne, E. Meadows, P. Luk, D. Normandin, E. Muise, L. Boulet, D.J. Pon, A. Robichaud, G.S. Robertson, K.M. Metters, F. Nantel (Canada) 84

Chronic sucrose intake augments antinociception induced by injections of mu but not kappa opioid receptor agonists into the periaqueductal gray matter in male and female rats
R.B. Kanarek, S. Mandillo, C. Wiatr (USA) 97

Environmental context modulates the ability of cocaine and amphetamine to induce *c-fos* mRNA expression in the neocortex, caudate nucleus, and nucleus accumbens
J. Uslaner, A. Badiani, H.E.W. Day, S.J. Watson, H. Akil, T.E. Robinson (USA) 106

Differential modulation of GABA- and NMDA-gated currents by ethanol and isoflurane in cultured rat cerebral cortical neurons
Z. Ming, D.J. Knapp, R.A. Mueller, G.R. Breese, H.E. Criswell (USA) 117

Cocaine activates redox-regulated transcription factors and induces TNF-α expression in human brain endothelial cells
Y.W. Lee, B. Hennig, M. Fiala, K.S. Kim, M. Toborek (USA) 125

Neurons in the deep layers of superior colliculus are a requisite component of the neuronal network for seizures during ethanol withdrawal
L. Yang, C. Long, C.L. Faingold (USA) 134

Activation of $GABA_A$ receptors in the amygdala blocks the acquisition and expression of conditioned defeat in Syrian hamsters
A.M. Jasnow, K.L. Huhman (USA) 142

(Contents continued inside)

0006-8993(20011130)920:1/2;1-W

(contents continued)

Acetylcholine attenuates synaptic GABA release to supraoptic neurons through presynaptic nicotinic receptors
D.-P. Li, Yu.-Z. Pan, H.-L. Pan (USA) 151

The temporal alteration of GAD67/GAD65 ratio in the gerbil hippocampal complex following seizure
T.-C. Kang, H.S. Kim, M.-O. Seo, S.Y. Choi, O.-S. Kwon, N.-I. Baek, H.Y. Lee, M.H. Won (South Korea) 159

Electrophysiological and behavioral output of the rat basal ganglia after intrastriatal infusion of *d*-amphetamine: lack of support for the basal ganglia model
B.L. Waszczak, L. Martin, N. Boucher, N. Zahr, R.W. Sikes, J.R. Stellar (USA) 170

Neurotoxic properties of cerebrospinal fluid from behaviorally impaired autoimmune mice
D. Maric, J.M. Millward, D.A. Ballok, H. Szechtman, J.A. Denburg, J.L. Barker, B. Sakic (USA, Canada) 183

Effects of methylmalonic and propionic acids on glutamate uptake by synaptosomes and synaptic vesicles and on glutamate release by synaptosomes from cerebral cortex of rats
A.M. Brusque, L.N. Rotta, R.G. Tavares, T. Emanuelli, C.V. Schwarzbold, C.S. Dutra-Filho, A.T. de Souza Wyse, C.M. Duval Wannmacher, D.O. Gomes de Souza, M. Wajner (Brazil) 194

MDMA and fenfluramine alter the response of the circadian clock to a serotonin agonist in vitro
S.M. Biello, R.I. Dafters (UK) 202

Subpopulations of neurons in rat substantia nigra display $GABA_BR2$ receptor immunoreactivity
T.K.Y. Ng, K.K.L. Yung (PR China) 210

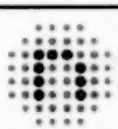
p75 and TrkA receptors are both required for uptake of NGF in adult sympathetic neurons: use of a novel fluorescent NGF conjugate
K.P. Gatzinsky, R.P. Haugland, C. Thrasivoulou, N. Orike, A.W. Budi-Santoso, T. Cowen (Sweden, USA, UK) 226

Short communications

Upregulated expression of *N*-syndecan, a transmembrane heparan sulfate proteoglycan, in differentiated neural stem cells
M. Inatani, M. Haruta, M. Honjo, A. Oohira, N. Kido, M. Takahashi, Y. Honda, H. Tanihara (Japan) 217

Identification of ST2A1 as a rat brain neurosteroid sulfotransferase mRNA
M. Shimada, K. Yoshinari, E. Tanabe, E. Shimakawa, M. Kobashi, K. Nagata,, Y. Yamazoe (Japan) 222

Author index 239



neuroscion
a meeting of minds

To view articles from this journal, visit Neuroscion, the comprehensive neuroscience information service on the web.

Register today at **www.neuroscion.com**